

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS Offeror To Complete Block 12, 17, 23, 24, & 30				1. Requisition Number SEE SCHEDULE		Page 1 Of 7	
2. Contract No. W56HZV-06-D-VB01		3. Award/Effective Date 2007MAY03		4. Order Number 0003		5. Solicitation Number	
7. For Solicitation Information Call:		A. Name DAWN VANHULLE		B. Telephone Number (No Collect Calls) (586)574-6977		6. Solicitation Issue Date	
9. Issued By U.S. ARMY TACOM LCMC AMSTA-AQ-AHPC WARREN, MICHIGAN 48397-5000 HTTP://CONTRACTING.TACOM.ARMY.MIL				Code W56HZV		10. This Acquisition Is <input type="checkbox"/> Unrestricted OR <input type="checkbox"/> Set Aside: % For <input type="checkbox"/> Small Business <input type="checkbox"/> Emerging Small Business <input type="checkbox"/> 8(A) <input type="checkbox"/> Hubzone Small Business <input type="checkbox"/> Service-Disabled Veteran-Owned Small Business NAICS: 336992 Size Standard:	
				11. Delivery For FOB Destination Unless Block Is Marked <input type="checkbox"/> See Schedule		12. Discount Terms	
				<input checked="" type="checkbox"/> 13a. This Contract Is A Rated Order Under DPAS (15 CFR 700)		13b. Rating DOA4	
				14. Method Of Solicitation <input type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP			
15. Deliver To SEE SCHEDULE				Code		16. Administered By DCMA CENTRAL PENNSYLVANIA - YORK PO BOX 15512 YORK PA 17405-1512	
Telephone No.				SCD: A PAS: NONE			
17. Contractor/Offeror BAE SYSTEMS LAND & ARMAMENTS INC. 1100 BAIRS RD YORK, PA 17405-1512				Code 06085 Facility		18a. Payment Will Be Made By DFAS - COLUMBUS CENTER DFAS-CO/NORTH ENTITLEMENT OPERATION P.O. BOX 182266 COLUMBUS OH 43218-2266	
Telephone No.				Code HQ0337			
<input type="checkbox"/> 17b. Check If Remittance Is Different And Put Such Address In Offer				18b. Submit Invoices To Address Shown In Block 18a Unless Block Below Is Checked <input type="checkbox"/> See Addendum			
19. Item No.	20. Schedule Of Supplies/Services			21. Quantity	22. Unit	23. Unit Price	24. Amount
	SEE SCHEDULE						FMS REQUIREMENT
(Use Reverse and/or Attach Additional Sheets As Necessary)							
25. Accounting And Appropriation Data ACRN: AA 9711 X8242B701X6D1000AAB 001252GB7S20113 W56HZV						26. Total Award Amount (For Govt. Use Only) \$19,421,469.50	
<input type="checkbox"/> 27a. Solicitation Incorporates By Reference FAR 52.212-1, 52.212-4, FAR 52.212-3 And 52.212-5 Are Attached. Addenda						<input type="checkbox"/> Are <input type="checkbox"/> Are Not Attached.	
<input checked="" type="checkbox"/> 27b. Contract/Purchase Order Incorporates By Reference FAR 52.212-4, FAR 52.212-5 Is Attached. Addenda						<input checked="" type="checkbox"/> Are <input type="checkbox"/> Are Not Attached.	
<input checked="" type="checkbox"/> 28. Contractor Is Required To Sign This Document And Return 2 Copies to Issuing Office. Contractor Agrees To Furnish And Deliver All Items Set Forth Or Otherwise Identified Above And On Any Additional Sheets Subject To The Terms And Conditions Specified.					<input type="checkbox"/> 29. Award Of Contract: Ref. _____ Offer Dated _____. Your Offer On Solicitation (Block 5), Including Any Additions Or Changes Which Are Set Forth Herein, Is Accepted As To Items:		
30a. Signature Of Offeror/Contractor					31a. United States Of America (Signature Of Contracting Officer)		
30b. Name And Title Of Signer (Type Or Print)			30c. Date Signed		31b. Name Of Contracting Officer (Type Or Print) JOHN REGENHARDT /SIGNED/ JOHN.REGENHARDT@US.ARMY.MIL (586)574-6973		31c. Date Signed 2007MAY03

19. Item No.	20. Schedule Of Supplies/Services	21. Quantity	22. Unit	23. Unit Price	24. Amount

32a. Quantity In Column 21 Has Been

☐ Received ☐ Inspected ☐ Accepted, And Conforms To The Contract, Except As Noted: _____

32b. Signature Of Authorized Government Representative		32c. Date	32d. Printed Name and Title of Authorized Government Representative		
32e. Mailing Address of Authorized Government Representative			32f. Telephone Number of Authorized Government Representative		
			32g. E-Mail of Authorized Government Representative		
33. Ship Number		34. Voucher Number	35. Amount Verified Correct For	36. Payment	37. Check Number
<input type="checkbox"/> Partial <input type="checkbox"/> Final	<input type="checkbox"/> Complete <input type="checkbox"/> Partial <input type="checkbox"/> Final				
38. S/R Account No.		39. S/R Voucher Number	40. Paid By		
41a. I Certify This Account Is Correct And Proper For Payment			42a. Received By (Print)		
41b. Signature And Title Of Certifying Officer			41c. Date	42b. Received At (Location)	
				42c. Date Rec'd (YY/MM/DD)	42d. Total Containers

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 2 of 7
	PIIN/SIIN W56HZV-06-D-VB01/0003	MOD/AMD	
Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS INC.			

SUPPLEMENTAL INFORMATION

1. This is an order for 44 Iraqi Light Armor Vehicles (ILAVs) on a Firm-Fixed Price basis at a unit price of \$388,000.00 and a bilateral ceiling priced Change Order for the addition of an Interrogator Arm to be integrated onto each of the 44 ILAV vehicles.
2. The parties agree that any equitable price adjustment to which the contractor is entitled with respect to this change is limited to a total ceiling price of \$4,698,939.00.
3. LIMITATION OF GOVERNMENT LIABILITY. Pending definitization, the maximum amount for which the Government shall be liable for the incorporation of the above change order is \$2,349,469.50.
4. The schedule for definitizing this Change Order is:
- Submission of FFP Proposal: 30 days after date of this order
Completion of Negotiations: 75 days after date of this order
Completion of Definitization: 90 days after date of this order
5. If agreement on a definitive contract price adjustment is not reached by the target date in paragraph 4 above, or within any extension of it granted by the Contracting Officer, the Contracting Officer may determine a reasonable price adjustment in accordance with Subpart 15.4 and Part 31 of the FAR, subject to Contractor appeal as provided in the Disputes clause. In any event, the Contractor shall proceed with completion of the contract, subject only to the Limitation of Government Liability.
6. CLIN 0011AF is established to fund the interim increase of \$2,349,469.50, 50% of the ceiling, pending definitization of this change order.
7. The total amount of this order is shown below:
- | | |
|---|-----------------|
| 44 ILAVs (FFP) | \$17,072,000.00 |
| Limitation of Government Liability for the Interrogator Arm Change: | \$2,349,469.50 |
| Total Amount: | \$19,421,469.50 |
8. All other terms and conditions of the Contract are unchanged and remain in full force and effect.

*** END OF NARRATIVE A 0001 ***

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-06-D-VB01/0003 MOD/AMD	Page 3 of 7
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Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS INC.

ITEM NO	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	SUPPLIES OR SERVICES AND PRICES/COSTS				
0011	NSN: 0000-00-000-0000 FSCM: 00000 PART NR: IRAQI LIGHT ARMORED VEHICL SECURITY CLASS: Unclassified				
0011AE	<u>FIRST ORDERING YEAR - ILAV</u> NOUN: IRAQI LAV W/INTERROGATOR ARM PRON: J577L114EH PRON AMD: 03 ACRN: AA AMS CD: AAB001 CUSTOMER ORDER NO: J57AAB01EHB7 FMS CASE IDENTIFIER: Y9-B-AAY <u>Packaging and Marking</u> <u>Inspection and Acceptance</u> INSPECTION: Origin ACCEPTANCE: Origin <u>Deliveries or Performance</u> DOC				

CONTINUATION SHEET	Reference No. of Document Being Continued PIIN/SIIN W56HZV-06-D-VB01/0003 MOD/AMD	Page 5 of 7
Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS INC.		

DESCRIPTION/SPECIFICATIONS/WORK STATEMENT
ILAV/INTERROGATOR-ARM VARIANT (ILAV-IA)

Statement of Work

- C.1. The Contractor shall deliver 44 each ILAV Vehicles with fully integrated Interrogator Arms (ILAV-IA). ILAV-IA vehicles are to comply with the ILAV vehicle specifications (Attachments 001, 002, 005 and 006 of the basic contract) unless exempted under the Exemptions for Basic Vehicle Specifications (Attachment 002 of this order). The ILAV-IA must also comply with the Specification Supplement dated April 25, 2007 (Attachment 001 of this order).
- C.3. The Contractor shall incorporate into all the ILAV-IAs, even vehicles previously shipped to Iraq, all corrections of deficiencies identified during the ILAV Automotive Shakedown Test (C.3 of ID/IQ Contract W56HZV-06-D-VB01).
- C.4. The Contractor shall test the functionality of the arm and its integration into the vehicle on one ILAV-IA test vehicle. The Contractor shall submit in Contractor format a test plan for PCO approval (see Section F for the schedule). The Contractor shall notify in writing the Contracting Officer and program office (Ms. Vickie Whiteaker) of the anticipated start date of the test at least 14 days prior, so that the Government may witness the test.
- C.5. The Contractor shall be responsible for supporting this test with both technical assistance and spare parts, for any transportation required, and for restoring the test vehicle to like-new condition prior to acceptance by the Government.
- C.6. Contractor will successfully demonstrate to Army Engineering satisfaction full operational capability of a fully modified ILAV vehicle to ILAV-IA requirements.
- C.7. The Contractor shall deliver to the Contracting Officer, no later than 7 days after completion of the test, a concise report of the testing and its results. If any deficiencies are identified during testing, the Contractor shall submit Failure Analysis and Corrective Action Reports (FACAR) in accordance with A006, except the FACAR shall be delivered no later than 7 days after test completion.
- C.8. The Contractor shall incorporate any corrections of IAV-IA test deficiencies on all ILAVIA vehicles.
- C.9. Upon successful demonstration of operational capability the Contractor shall deliver 44 new ILAV-IA to the government.
- C.10. The Contractor-conducted test of the one test vehicle shall be in accordance with the following schedule:
- | | |
|----------------------------------|---|
| Test | |
| NLT 13 Jul 07 | Submit test plan |
| NLT 14 days after plan | Govt approval/disapproval of test plan |
| NLT 28 Sep 07 | Complete ILAVIA test |
| 7 days after test | All corrective actions submitted (FACAR, CDRL A006) |
| 7 days after last FACAR | Govt approval/disapproval of test results |
| plus proposed corrective actions | |
- C.11 The Contractor shall deliver vehicles in accordance with the following schedules:
- | | |
|--------|---|
| Nov 07 | 10 each |
| Dec 07 | 10 |
| Jan 08 | 12 |
| Feb 08 | 12 each (this includes the one restored to like new condition test vehicle) |
- The Contractor may deliver earlier provided it is at no additional cost to the Government.
- F.3. FOB Point Origin. The ILAVIAs will be accepted at the following location: Spartan Motors, Charlotte, MI and FPI, Landson, SC.

*** END OF NARRATIVE C 0001 ***

CONTRACT ADMINISTRATION DATA

LINE	PRON/ AMS CD/ ITEM	OBLG STAT	ACCOUNTING CLASSIFICATION	JOB ORDER NUMBER	ACCOUNTING STATION	OBLIGATED AMOUNT
0011AE	J577L114EH AAB001 J57AAB01EHB7	AA 2	9711 X8242B7O1X6D1000AAB 001252GB7S20113	7LTJKI	W56HZV \$	17,072,000.00
0011AF	J577L114EH AAB001 J57AAB01EHB7	AA 2	9711 X8242B7O1X6D1000AAB 001252GB7S20113	7LTJKI	W56HZV \$	2,349,469.50
					TOTAL \$	19,421,469.50

SERVICE NAME	TOTAL BY ACRN	ACCOUNTING CLASSIFICATION	ACCOUNTING STATION	OBLIGATED AMOUNT
Army	AA	9711 X8242B7O1X6D1000AAB 001252GB7S20113	W56HZV	\$ 19,421,469.50
				TOTAL \$ 19,421,469.50

ACRN	EDI ACCOUNTING CLASSIFICATION	
AA	97110X0X8242B7O1 S20113 X6D1000AAB00100000252G	7LTJKIS20113 W56HZV

CONTINUATION SHEET	Reference No. of Document Being Continued		Page 7 of 7
	PIIN/SIIN W56HZV-06-D-VB01/0003	MOD/AMD	
Name of Offeror or Contractor: BAE SYSTEMS LAND & ARMAMENTS INC.			

LIST OF ATTACHMENTS

List of Addenda	Title	Date	Number of Pages	Transmitted By
Attachment 001	SPECIFICATION SUPPLEMENT	25-APR-2007	001	
Attachment 002	EXEMPTIONS FOR BASIC VEHICLE SPECIFICATIONS	01-MAY-2007	002	

SPECIFICATION SUPPLEMENT

ILAV/INTERROGATOR-ARM VARIANT

ILAV/INTERROGATOR-ARM VARIANT (ILAV-IA)

April 25, 2007

Interrogator Arm Specifications:

1. All ILAV-IA vehicles shall be equipped with an articulating interrogator arm (hereafter referred to as Arm) with live video feed to the inside of the vehicle.
2. The Arm shall enable the crew to identify Improvised Explosive Devices (IEDs) and mines at all times of the day and night to clear debris, and shall be capable of being monitored and operated from within the protection of the vehicle.
3. The Arm shall not interfere with firing of the vehicle mounted weapon in super elevation gun positions. No horizontal (vehicle datum) interference is desired; minimal interference is permitted. Also Vertical section of the Arm is exempted from this requirement.
4. Stowage cradle and manual quick release latch provisions (operation from either interior or exterior of the vehicle is acceptable) for the Arm are required.
5. Vehicle interfaces are to be structurally durable to facilitate stowage, transport and operation of the Interrogator Arm unit.
6. Hydraulic and electrical cable quick disconnects (requiring no tools) are required between vehicle and Interrogator Arm unit.
7. The Arm shall be capable of manipulating objects located from 21 to 28 feet from the vehicle.
8. The Arm shall be able to interrogate objects within a minimum azimuth of 250 degrees and objective azimuth of 270 degrees with respect to the front bumper, RH side.
9. The Arm shall be able to lift objects weighing as much as 50 pounds while fully extended.
10. The Arm shall be able to operate and meet all specification requirements within a temperature range of -20 to 130F.
11. Roll Capacity. The Arm shall be able to roll an object weighing as much as 250 lbs. from one side to another.
12. Heel To capacity. The Arm shall be able to pull over or pry an object weighing as much as 100 lbs. from one side to another.
13. The Arm end shall be equipped with a light weight metallic manipulator with a minimum of two tines and a single heel.
14. The camera shall have minimum optical zoom of 20x and digital zoom not less than 10x.
15. The Arm unit shall provide dedicated illumination (spot or flood lamp) for night operation of the interrogator.
16. The display shall be dual mode monochrome/color TFT video display not less than 5.2 diag. and 320 x 240 resolution display with joystick control.
17. Adequate stowage provisions for the display unit shall be provided to secure and prevent the display and control unit from damage during vehicle operation in rough terrain and when display is not in use.
18. Electronic control cables shall be equipped with end connectors at the display and camera ends.
19. Each vehicle shall be shipped with two ILAV-IAV vehicle and Arm operator manuals, one in English and one in common Arabic read by everyday people in Iraq. Both manuals shall contain identical information. The ILAV-IAV operator manuals shall consist of the complete ILAV manual supplemented with the ILAVIA unique modifications and operator instructions pertaining to the interrogator arm system, the system integration and operation.
20. All vehicles are to be equipped with a properly functioning, all wheel antilock brake system. (ABS)
21. Contractor to perform operational test demonstration of the functional attributes of the Interrogator Arm and all associated components for Government representatives at the Contractor facility.
22. All vehicles shall have a Vehicle Operators Placard displayed on the interior of the cab notifying operators of a decreased side slope capability (less than 20%) and risk of rollover due to the additional weight of the Interrogator Arm.

3.0 EXEMPTION FOR BASIC VEHICLE SPECIFICATIONS. DUE TO THE SPECIAL MISSION PROFILE AND EQUIPMENT REQUIRED FOR INTERROGATION OF POTENTIAL THREATENING OBJECTS, ILAV-IA VEHICLES EQUIPPED WITH INTERROGATOR ARM UNITS ARE EXEMPTED FROM THE FOLLOWING BASIC ILAV VEHICLE SPECIFICATIONS/REQUIREMENTS ONLY FOR THE REASON DESCRIBED BELOW EACH EXEMPTED SPECIFICATION.

3.1.7.2 THE VEHICLE SHALL HAVE A WALL TO WALL TURNING DIAMETER OF LESS THAN 70 FEET.
This is due to the reduced inside turn angle available with the larger steer axle (35 degrees vs 40 degrees on current axle)

3.1.10.8 VEHICLE CAB SHALL PROVIDE THE DRIVER WITH 180 DEG FIELD OF UNOBSTRUCTED VIEW WHILE SEATED IN THE DRIVERS SEAT.
The crane mounted on the right front corner will present a visual occlusion

3.1.10.13 VEHICLE FULLY OUTFITTED WITHOUT PERSONNEL SHALL NOT WEIGH MORE THAN 34,000LB.
This modification will add approximately 1100 lbs to the vehicle weight, making the fully outfitted weight 34,600 lb (est)

3.1.10.15 REDUCIBLE HEIGHT NOT TO EXCEED 9 FEET. TASK TO BE ACCOMPLISHED BY 2 PERSONNEL WITHOUT THE USE OF AUXILIARY LIFTING DEVICES (SHALL BE COMPLETED WITH ONLY ONBOARD TOOLS).
Because of the width of the crew compartment and the placement of the crane mount, the crane will have to be stowed on top of the roof, rather than along side. The crane itself is too heavy (approx 350lbs) and unwieldy to be reduced or assembled by two people w/o auxiliary lifting devices.

3.1.10.16 THE GROUND CLEARANCE OF THE VEHICLE SHALL MEET BOTH OF THE FOLLOWING REQUIREMENTS:
A) THE VEHICLE SHALL BE CAPABLE OF PASSING OVER AN OBSTACLE 13 INCHES TALL AND 24 INCHES WIDE THAT IS CENTERED UNDER THE VEHICLES LONGITUDINAL CENTERLINE WITHOUT ANY PART OF THE VEHICLE CONTACTING THE OBSTACLE.
B) NO PART OF THE VEHICLE, EXCLUDING THE TIRE/WHEEL ASSEMBLIES, SHALL BE LESS THAN 10 INCHES FROM THE GROUND.
Exemption: The physical size of the larger front axle required to accommodate the additional weight of the mounted crane, will impinge on the ground clearance requirement. The extent of this impingement will be tested, verified and communicated once the vehicle is fully loaded.

3.1.11.3 THE VEHICLE SHALL BE CAPABLE OF OPERATING 90% OF MISSION ON PAVED AND UNPAVED ROADS AND 10% OFF ROAD (TRAILS).
This modification may reduce the vehicles ability to operate in off-road conditions due to the high ground pressure resulting from the additional front axle weight, and additional high-cg mass.

3.1.11.4 VEHICLE SHALL OPERATE AT REDUCED SPEEDS OFF ROAD IN A RANGE OF ENVIRONMENTS INCLUDING SAND, MUD, LOOSE SOIL AND GRAVEL.
This modification may reduce the vehicles ability to operate in off-road conditions due to the high ground pressure resulting from the additional front axle weight, and additional high-cg mass.

3.1.11.5 VEHICLE SHALL BE CAPABLE OF PASSING THROUGH LIGHT OR MEDIUM VEGETATION AND LIGHT MAN MADE STRUCTURES.
Crane is not designed to be used as a ram; passing through light structures may result in damage to the crane or its controls/ mounting.

3.1.11.8** VEHICLE AT GVW SHALL BE CAPABLE OF ACCELERATING FROM 0 TO 20 MPH WITHIN 10 SECONDS (THRESHOLD) ON LEVEL HIGHWAY WITH AN OBJECTIVE OF 6 SEC.
An additional 1100lbs onboard may increase the elapsed time for acceleration (testing would be required to confirm).

3.1.11.10 VEHICLE AT GVW SHALL BE CAPABLE OF TRAVERSING A 20% SIDE SLOPE ON EACH SIDE. The additional mass up high will affect vehicle C of G (magnitude to be determined), which may affect this parameter testing would be required to confirm

3.1.12.4 WEAPON TO BE CAPABLE OF FIRING AT 45 DEGREE ELEVATION ABOVE THE HORIZON AND 8 DEGREES BELOW THE HORIZON. PKM RING MOUNT SHALL BE DESIGNED TO INHIBIT SHOOTING OF THE VEHICLE
The crane will be subject to being a target, in both stowed and deployed positions

3.1.12.6 WEAPON STATION COMBINED FIELD OF FIRE TO PROVIDE 360 DEGREE OF COVERAGE.
A small sector will be blocked by the vertical crane pier below a certain muzzle depression (TBD)

3.1.14.2 VEHICLE SHALL BE PROVIDED WITH PARKING BRAKES WHICH SHALL BE CAPABLE OF HOLDING THE VEHICLE AT GVW ON A 45% LONGITUDINAL SLOPE.
The additional front weight may be enough to reduce the hill holding performance testing would be required to confirm.

3.1.8.1 ALL TIRES SHALL BE OF THE SAME SIZE, LOAD RATING AND TREAD DESIGN, AND ALL WHEELS SHALL BE INTERCHANGEABLE,

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MOD/AMD

ATT/EXH ID Attachment 002

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INCLUDING THE SPARE WHEEL AND TIRE ASSEMBLY.

The vehicles built with the crane arm will all use 335 PCD hub-piloted wheels front and rear. They will match among themselves, but will not match non-crane-equipped vehicles, which have a 285mm bolt circle.